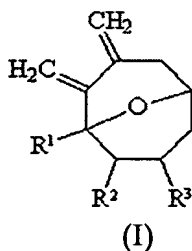


ABSTRACT

The present invention relates to a synthesis of an 8-membered carbocyclic compound having diexomethylene groups, more particularly to a synthesis of an 8-membered carbocyclic compound having diexomethylene groups, a novel compound having the structure represented by the following Chemical Formula 1, from trimethylsilanylmethyl-allenol derivative by the intramolecular Prins cyclization using Lewis acid. The 8-membered carbocyclic compound is a useful intermediate for synthesis of other multicarbocyclic compounds.



In Chemical Formula 1, R¹ is a phenyl group, and R² and R³ is a hydrogen atom, or R¹, R² and R³ may be connected with neighboring substituents to form a 5 to 10-membered aliphatic or aromatic ring.